

Title (en)

Archival recording media with improved information layer and associated substrate.

Title (de)

Aufzeichnungsmedien für Archivszwecke mit verbesserter Informationsschicht und damit verbundenem Substrat.

Title (fr)

Moyens d'enregistrement d'archives à couche d'informations améliorée et substrat y associé.

Publication

EP 0079741 A2 19830525 (EN)

Application

EP 82305935 A 19821108

Priority

US 31946681 A 19811109

Abstract (en)

Embodiments show a recording medium adapted for recording and read-out with relatively low-power laser means to write digital data "bits" (as reflectance changes) for high density computer storage. One preferred medium comprises a disk support having an "anti-reflective" surface on which is laid a gold "information layer" adapted to absorb recording radiation (from laser beam) and so "write" the bits. The anti-reflective surface may comprise a high-reflectance surface, like an aluminum film, covered with a transparent (to beam) dielectric "spacer" like SiO₂. The gold (absorber) layer exhibits surprisingly high sensitivity, apt for low power recording, and extended archival stability; more surprising, it appears to be formed without any evidence of the usual "pit formation" or other deformation and by relatively slight laser-heating, well below the melting point!

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G11B 7/24

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